

**147th Reconnaissance Wing
Ellington Field Joint Reserve Base
Texas Air National Guard
Installation Restoration Program Update
Spring 2016**



Background

The 147th Reconnaissance Wing of the Texas Air National Guard is providing this update to provide information on the latest actions taken to manage and remediate contamination related to historical Base activities in order to meet current regulatory requirements to ensure safety to the health of personnel and the environment.

Past and present operations at the Base have involved use and disposal of hazardous materials, including fuels, oils, paints, and solvents. There are four Environmental Restoration Program (ERP) sites that were identified at the Base. They are: Site 1, the Former Base Landfill, Site 2, The Petroleum, Oil, and Lubricant Storage Area, Site 3, The Fuel System Repair Shop, and Site 4, The Underground Storage Tank Area near buildings 1380 and 1255. There are also seven Military Munitions Response Program (MMRP) sites that have been identified at the Base: the Small Arms Range, the Skeet Range (two sites), the North Munitions Dump Site, the South Munitions Dump Site, the Ordnance Storage Area, the Small Arms and Flare Storage Magazines; shown on page 2 of this bulletin.

All of the ERP sites are closed with no further action required by the Texas Commission on Environmental Quality (TCEQ), except for annual visual inspection to ensure that ERP Site 1 remains as designed. A Remedial

Investigation (RI) will begin at the North Munitions Dump Site this spring or summer depending on funding.

Remaining ERP Site Receiving Annual Inspection/Monitoring

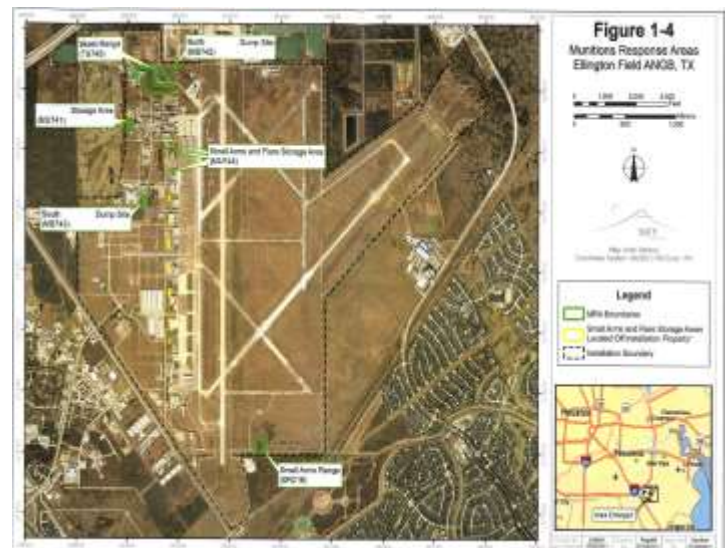
The Former Base Landfill, Site 1, is located at the northwest corner of the Base. The landfill site is approximately nineteen acres and is bordered by a golf course to the west and an undeveloped wooded area to the north, a commercial sand pit to the east, and additional base property to the south.



The landfill was used by the United States Air Force from 1942 until 1974. In October 2009, the TECQ approved a Post-Response Action Care Report and agreed that conditional

The RI began and was halted in July 2013 in order to establish a new work plan. The investigation did establish that munitions parts had been buried at the site, no explosives were discovered. Complicating matters was a layer of metal at the 2 foot line which made the proposed method of removal impossible. A new work plan will be created in order to continue with the remedial investigation at the Site.

The goal of the MMRP is to make munitions response sites safe for reuse and to protect human health and the environment in the process. The MMRP addresses the munitions and explosives as well as hazardous substances, pollutants, and contaminants that may be associated with MMRP sites.



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Site TS740 MRS is associated with a skeet range that was operational from early 1940's to mid 1960's. Proposed media of concern consist of lead and hydrocarbons. Project scope is to remove these materials from the site, properly dispose of them, and re-establish the soils at the site to Texas Risk

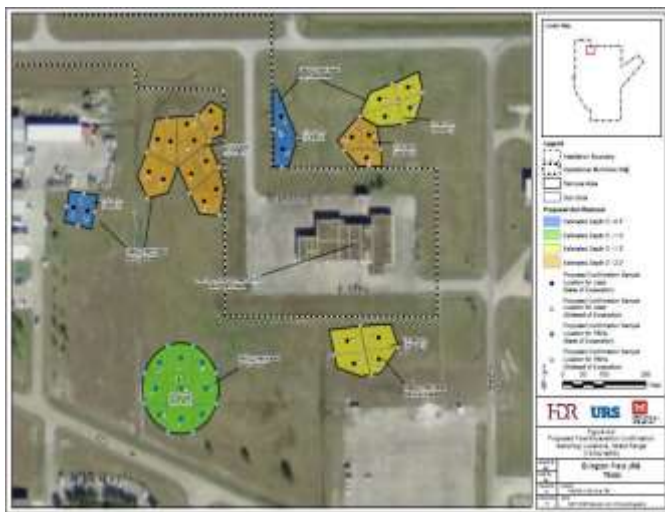
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Reduction Program (TRRP) Protective Concentration Levels (PCL) levels for residential soils so that future construction and activities will not be impacted. Remediation has begun as of this update to remove six (6) lead contaminated areas and one (1) polynuclear aromatic hydrocarbon (PAH) area in site 6. Site 1 consist of a plot equating to 4,525 square feet (SF). Site 2 consist of a plot equating to 30,153 SF. Site 3 consist of a plot equating to 6,165 SF. Site 4 consist of a plot equating to 7,284 SF. Site 5 consist of a plot equating to 10,902 SF. Site 6 consist of a plot equating to 26,391 SF. Finally, site 7 consist of a plot equating to 13,295 SF. Excavations for all areas are projected to not exceed 2 feet in depth.

are below the NTCRA criteria for lead, confirmation soil samples will be submitted to an off-site laboratory for lead analysis to verify that concentrations are below the NTCRA criteria. Confirmation soil samples will only be analyzed for PAHs in the PAH-contaminated removal area of the TS740 MRS to verify that remaining soil is below the NTCRA criteria.

Following the removal and disposal of range-related debris and contaminated soil at the Skeet Range (TS740 MRS), disturbed areas will be restored to pre-excavation conditions. Soil from an offsite borrow source will be used to replace the excavated soil. The area will be graded to match the surrounding terrain. Disturbed areas will be reseeded to match the original site vegetation.



During soil excavation, an X-ray fluorescence (XRF) analyzer will be used in the field to determine lead concentrations. Soil above the NTCRA criteria for lead in residential soils (i.e., 358 milligrams per kilogram [mg/kg]) will be excavated and disposed off-site. If XRF results

This Spring 2016 update consist of new site visit and work plan to complete sites 4 and 5 in the northwest corner. Excavation of site 5 consist of 2.51 acres and site 4 consist of .94 acres. Groundbreaking is currently forecasted for July of 2016.

